



Google and The Commonwealth of Virginia

Accelerating the Commonwealth's future through The Monarchsphere AI Incubator



The Vision: MonarchSphere

A First-of-its-Kind AI Incubator

Launched in late 2025, the **MonarchSphere** is the nation's first AI incubator embedded directly within a higher education institution's core operations.

Together, ODU and Google are creating a unified approach to modernize Virginia through four strategic pillars:

- ✓ **Personalized Education & Workforce Readiness**
- ✓ **Accelerated Research & Discovery**
- ✓ **Improved Healthcare Outcomes**
- ✓ **Efficiencies for the Commonwealth**



The Cleanest Cloud = Sustainable technology

Pillar 1: Personalized Education



MonarchMind Platform

A secure, AI-driven interface integrating top LLMs. It powers "MonarchMind," offering 24/7 student support, automated transcript evaluation, and personalized learning assistants to decrease DFW rates.



AI Tutors (LearnLM)

Leveraging Google's LearnLM to create pedagogical tutors that adapt to individual student needs, ensuring no student falls behind due to lack of personalized attention.



Career Readiness

Directly integrating Google Career Certificates into degree programs. Students graduate not just with a diploma, but with industry-recognized credentials in Data Analytics, IT, and AI.

Pillar 2: Research Acceleration

Speeding "Time to Science"

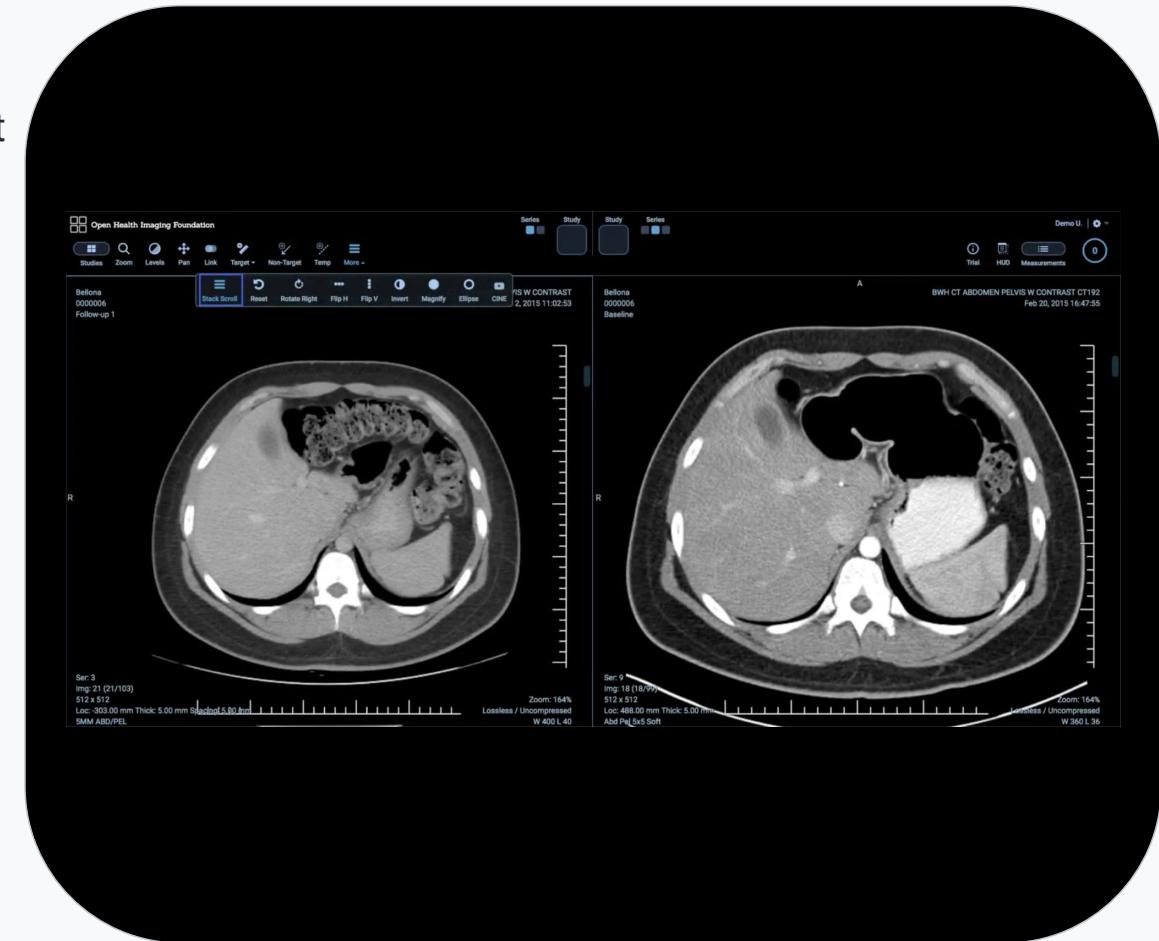
The incubator provides a secure, compliant environment for high-impact research, dramatically reducing processing times.

Glioblastoma Research:

Processing MRI data for brain tumor growth prediction reduced from **2 hours** to just **44 minutes** per patient.

Coastal Resilience:

Accelerated hurricane storm surge modeling to better protect Hampton Roads and coastal Virginia.



Pillar 3: Improved Healthcare Outcomes



From "Sick Care" to Preventative Care

Deploy AI-driven health solutions.

- ✓ **Bedside Assistance:** Reducing workforce burnout. Similar to our work with HCA Healthcare (21M nurse handoffs supported), AI agents handle documentation, freeing clinicians to focus on patients.
- ✓ **Clinical Excellence:** Deploying **Med-Gemini** (91.1% accuracy on USMLE) as a "second opinion" tool for rural clinics.
- ✓ **Preventative Monitoring:** Using wearables to detect AFib and chronic conditions early, lowering long-term care costs.

Working together to support people in everyday moments across their health journey



Understand my unique health context



Discover personalized insights & relevant information



Make informed decisions that are right for me



Manage my wellbeing through learning and improvement

Pillar 4: Efficiencies & The Commonwealth



Community Access

The MonarchSphere is open to **local municipalities and small businesses**. We are democratizing AI access, allowing local governments to optimize operations without massive upfront IT costs.



Operational Efficiency

Deploying "AI Agents" for state operations—automating document processing and inventory tracking. Organizations report a **61% improvement** in constituent experience.



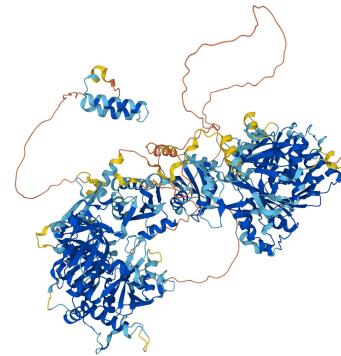
Cybersecurity

Protecting Virginia's data with a Zero Trust framework. Our Rural Health Cybersecurity Initiative helps vulnerable health systems identify threats **76% faster**.

Providing a competitive advantage



Leading AI-Optimized fully integrated infrastructure: best availability and pricing for GPU/TPU/xARM



Valuable Datasets: curated, valuable datasets for key domains:

(**Life Sciences:** AlphaFold, AlphaGenome)
(**Climate:** WeatherNext, Earth Engine)
(**Traffic:** Maps)
(**Cybersecurity:** VirusTotal, Mandiant)
(**Chip Design:** AlphaChip, Quantum Toolkit)
(**Robotics:** Asimov)



AI for Science made simple:
Abstract from tech complexity,

allowing researchers to focus on
science

Co-Scientist (assistant)
AlphaEvolve (coding)
Earth AI

Economic Impact: A Workforce Engine

We are stopping the "Brain Drain." By training ODU students on the same infrastructure used by 90% of the world's AI unicorns, we keep top talent in Virginia.

#1

First AI Incubator in Higher Ed

Positioning Virginia as a national leader in AI innovation.

61%

Improved Experience

Reported by orgs using Gen AI for constituent/patient services.

3.8B

Economic Contribution

Annual contribution of ODU initiatives to Virginia's economy.

Leading the AI Economy

We ask for your support to ensure Google is approved and funded
as a Cloud provider across the Commonwealth and to review
HEETF program to allow modern Cloud purchase

“Let's ensure Virginia is the leader in the AI-driven economy, not a follower”